

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic eject\$3). clm.	US-PGPUB	AND	ON	2007/04/23 09:34
L2	5	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:34
L3	2	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic eject\$3). clm.	US-PGPUB; USPAT	AND	ON	2007/04/23 09:34
L4	5	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB; USPAT	AND	ON	2007/04/23 09:35
L5	5	(nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:35
L6	7	(nozzle capillary hydrophilic electric\$3 hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:35

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic eject\$3). clm.	US-PGPUB	AND	ON	2007/04/23 09:34
L2	5	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:34
L3	2	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic eject\$3). clm.	US-PGPUB; USPAT	AND	ON	2007/04/23 09:34
L4	5	((ink or liquid or fluid) nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB; USPAT	AND	ON	2007/04/23 09:35
L5	5	(nozzle capillary hydrophilic electric field hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:35
L6	7	(nozzle capillary hydrophilic electric\$3 hydrophobic).clm.	US-PGPUB	AND	ON	2007/04/23 09:35
S1	10	((("4882595") or ("4752783") or ("4263601") or ("4479135") or ("5144340"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/04/11 09:37
S2	2	ep-911164-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:37
S3	2	"20040145632"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:37
S4	1	2004-535241.NRAN.	DERWENT	OR	ON	2006/04/11 09:37
S5	18	(hydrophobic same hydrophilic) and 347/55.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:45
S6	3	(hydrophobic same hydrophilic) and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 15:11
S7	312	((hydrophobic same hydrophilic) and electrode) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:53
S8	115	((hydrophobic same hydrophilic) and (electrode with (pad plate))) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:46
S9	72	((hydrophobic and hydrophilic) with (nozzle tub\$3 oriface)) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:49
S10	164	((hydrophobic and hydrophilic) same (nozzle tub\$3 oriface)) and "347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:49

## EAST Search History

S11	75	S10 and (electric\$2 with (field force attraction charge))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/11 09:50
S12	1	2004-535241.NRAN.	DERWENT	OR	ON	2006/04/11 10:41
S13	6	("5144340" "4479135" "4263601").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/02 13:06
S14	1	(hydrophilic electric field surface tension nozzle method).clm.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:13
S15	42434	"347"/\$.cccls.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:13
S16	2	(hydrophilic electric field surface tension nozzle).clm.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:13
S17	2	(hydrophilic electric field tension nozzle).clm.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:13
S18	2	(hydrophilic electric tension nozzle).clm.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:14
S19	28	(hydrophilic electric nozzle).clm.	US-PGPUB; USPAT	AND	ON	2006/10/02 15:14
S20	107	((hydrophilic or hydrophobic) layer eject\$3).clm. and "347"/\$.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/03 11:01
S21	38	((hydrophilic or hydrophobic) layer eject\$3 electric\$4).clm. and "347"/\$.cccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/02 15:19
S22	3	("5278126"   "5612725"   "6190003").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/02 15:24
S23	1	((hydrophobic same hydrophilic) and electrode) and 347/75-76.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:04
S24	0	((hydrophobic same hydrophilic) same sequentia\$4) and 347/75-76.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:54
S25	3	((hydrophobic same hydrophilic)) and 347/75-76.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:54
S26	3	((hydrophobic same hydrophilic)) and 347/75-77.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:55
S27	21	((hydrophobic same hydrophilic)) and 347/55,75-77.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:57

## EAST Search History

S28	336	((hydrophobic and hydrophilic) and (electric with field)) and "347"/\$.ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:58
S29	700	((hydrophobic same2 hydrophilic) and (electric with field)) and "347"/\$.ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:58
S30	221	((hydrophobic same hydrophilic) and (electric with field)) and "347"/\$.ccis.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 09:59
S31	17	((hydrophobic same hydrophilic) and (electric with field)) and "347"/55,75-77.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:52
S32	6	("3809980"   "4364054"   "4618809"   "4717926"   "4943818"   "4962723").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/03 10:02
S33	10	(("4882595") or ("4752783") or ("4263601") or ("4479135") or ("5144340")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/03 10:04
S34	3	(hydrophobic and hydrophilic) and S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:04
S35	3	("5278126"   "5612725"   "6190003").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/03 10:41
S36	4	("4166277"   "5598193"   "6074040"   "6102521").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/03 10:41
S37	293	347/75.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:53
S38	3	(hydrophobic and hydrophilic) and S37	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:53
S39	1363	347/55.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 10:53
S40	36	(hydrophobic and hydrophilic) and S39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 11:12

## EAST Search History

S41	2523	347/55,74-77.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/03 11:02
S42	368	347/74.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/10/03 11:02
S43	6	("5144340" "4479135" "4263601").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 11:12
S44	3	(hydrophobic and hydrophilic) and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 11:13
S45	303	(electrode with array) and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 11:13
S46	243	(electrode near4 array) and S41	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 11:13
S47	35	("4710780").URPN.	USPAT	OR	ON	2006/10/03 11:17
S48	52	("4717926").URPN.	USPAT	OR	ON	2006/10/03 11:19
S49	4	("5148193"   "5300951"   "5581285"   "5703630").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/03 11:40
S50	4	("4166277"   "5598193"   "6074040"   "6102521").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/03 11:42
S51	1	("6336697").URPN.	USPAT	OR	ON	2006/10/03 11:42
S52	1	2004-535241.NRAN.	DERWENT	OR	ON	2006/10/03 14:10
S53	11	(US-20040145632-\$.did. or (US-5144340-\$ or US-5980719-\$ or US-6336697-\$ or US-6652069-\$ or US-6435665-\$ or US-6406131-\$ or US-4717926-\$ or US-4281333-\$.did. or (JP-01114460-\$.did. or (EP-1439064-\$.did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/04/23 08:48
S54	9	(hydrophilic and hydrophobic) and S53	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:00
S55	79	((you with seop with lee).in. (suk with han with lee).in. (yong with seo with oh).in. (seung with joo with shin).in.) and (samsung).as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:58
S56	18	(ink with jet) and S55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 08:58

## EAST Search History

S57	2	(hydrophilic and hydrophobic) and S55	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:02
S58	6	"5144340".pn. "4479135".pn. "4263601".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:01
S59	3	(hydrophilic and hydrophobic) and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:04
S60	70845	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:04
S61	3189	(((lnk liquid fluid) near3 (philic and phobic)) (hydrophilic and hydrophobic)) same ((electric with field) potential voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:06
S62	37	S60 and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/23 09:06